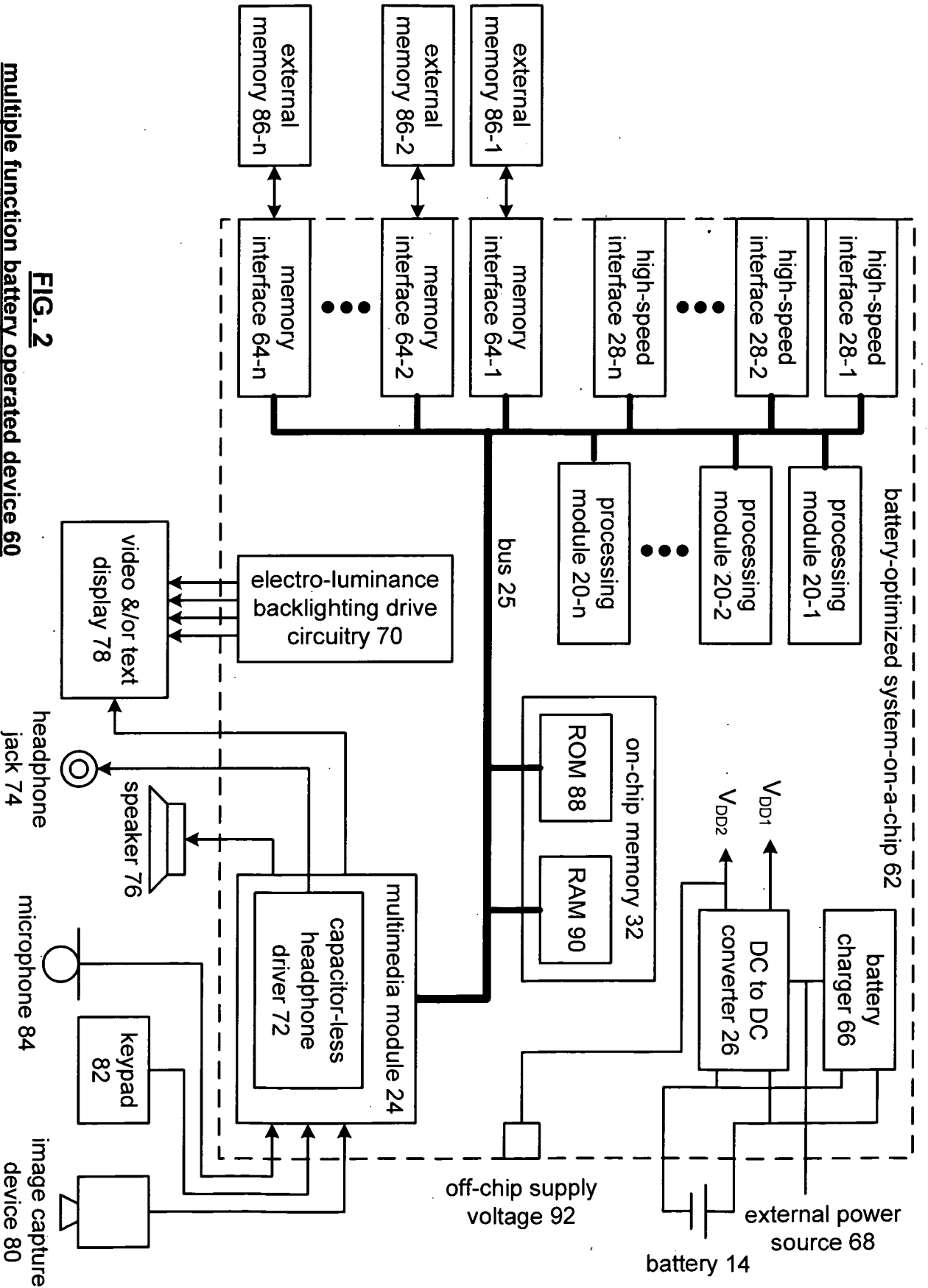
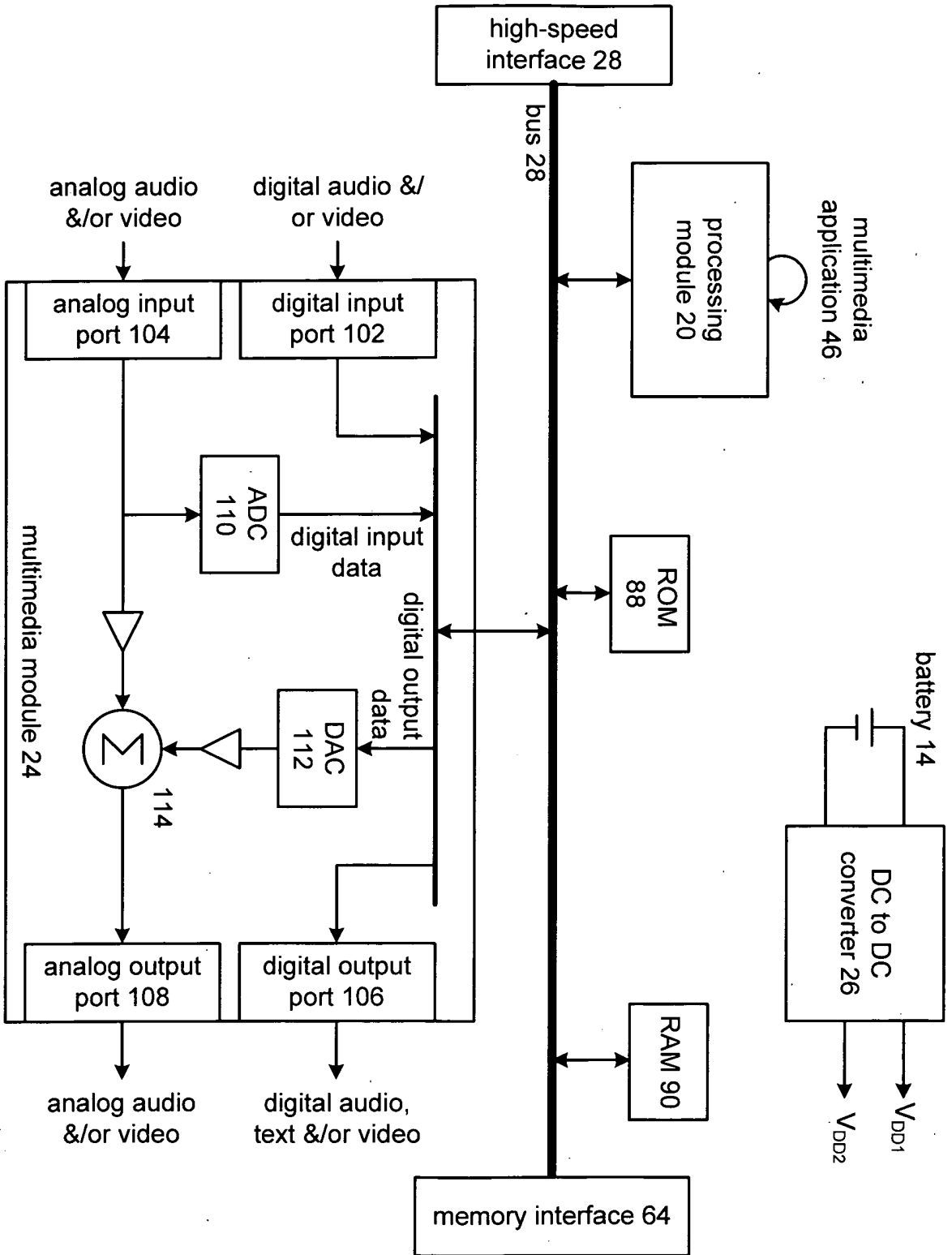


FIG. 1

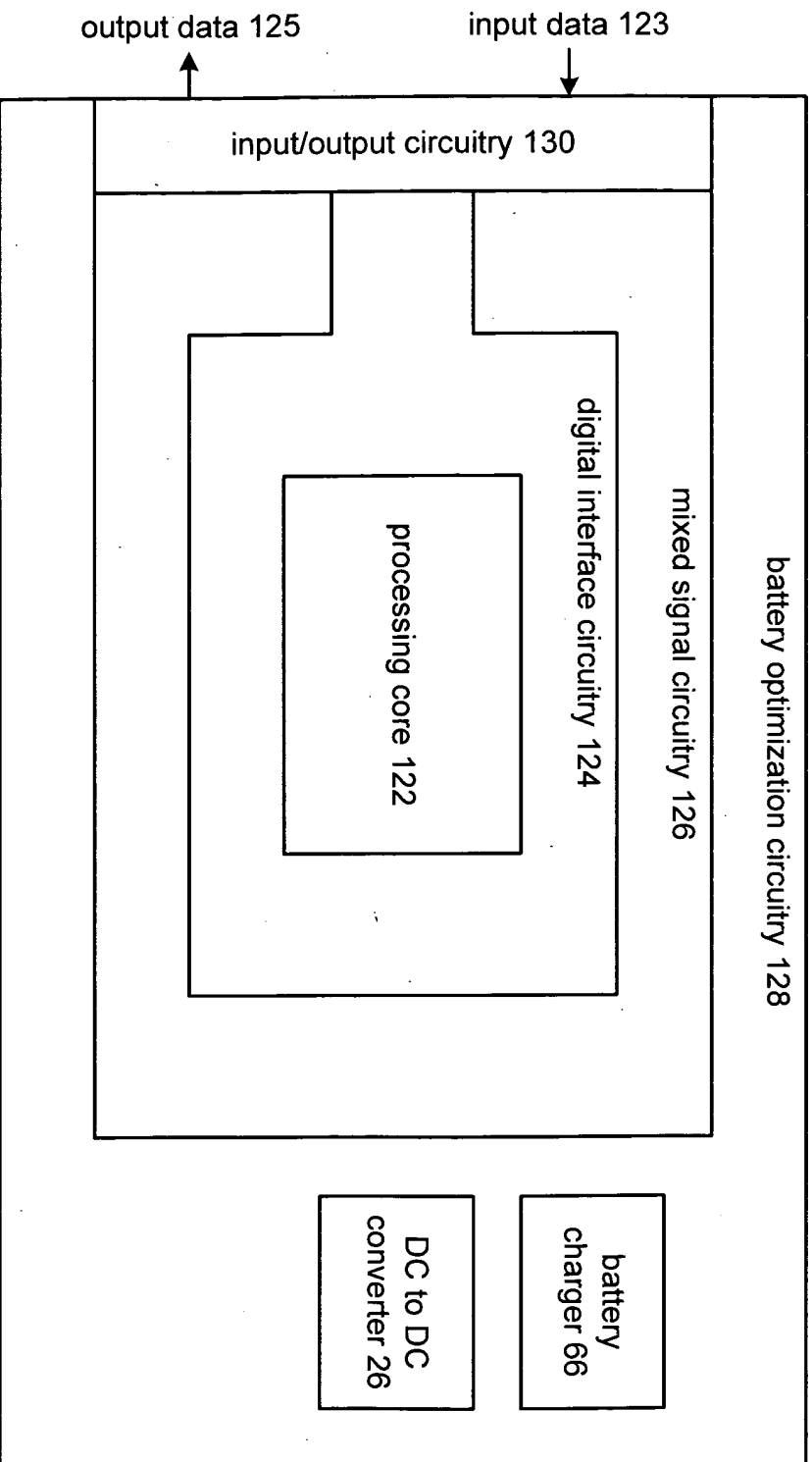


**FIG. 2**  
multiple function battery operated device 60

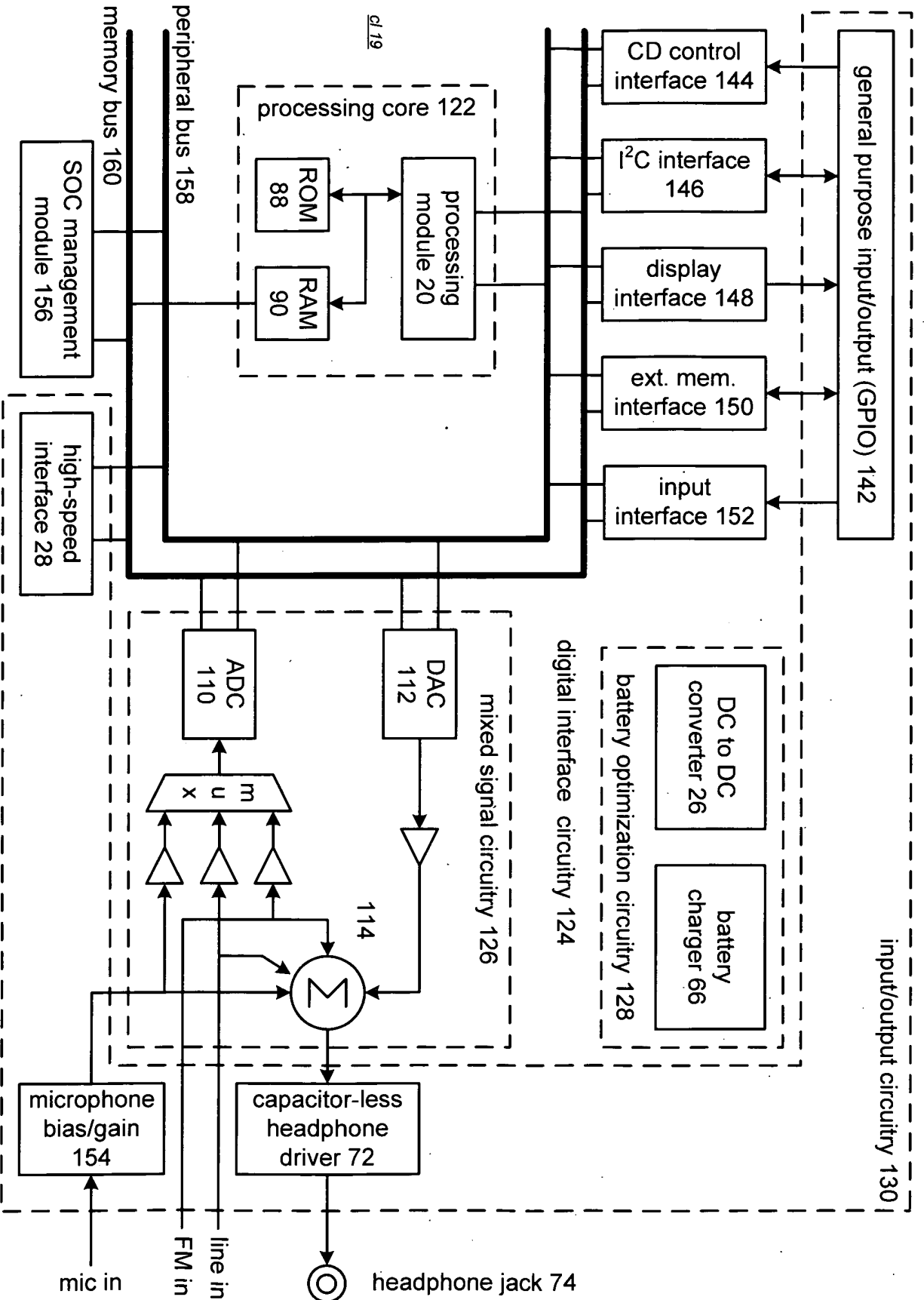


**FIG. 3**

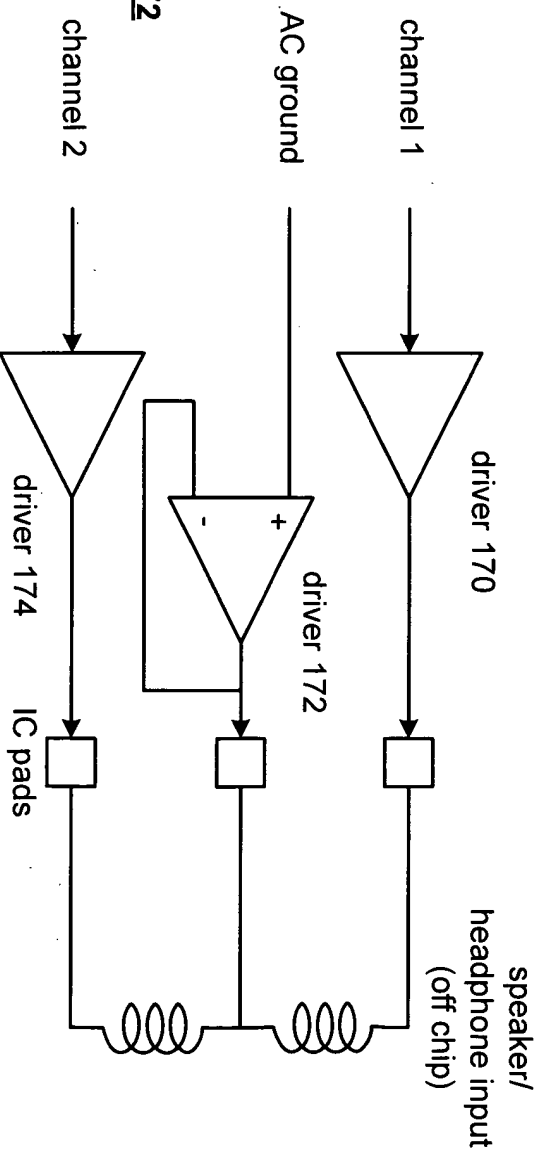
**battery-optimized system-on-chip 100**



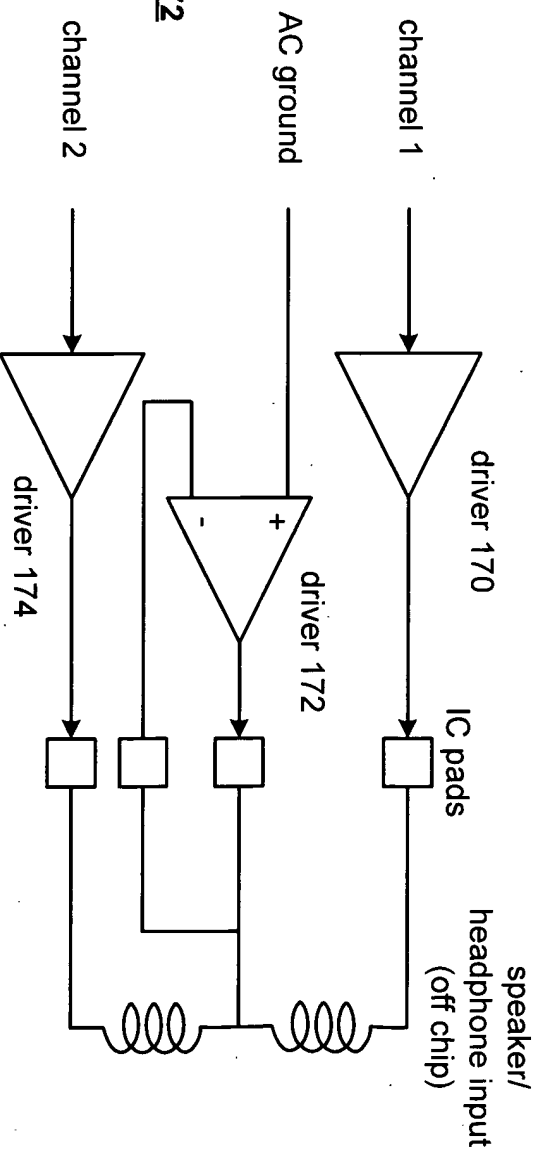
**FIG. 4**  
**comprehensive system-on-a-chip 120**

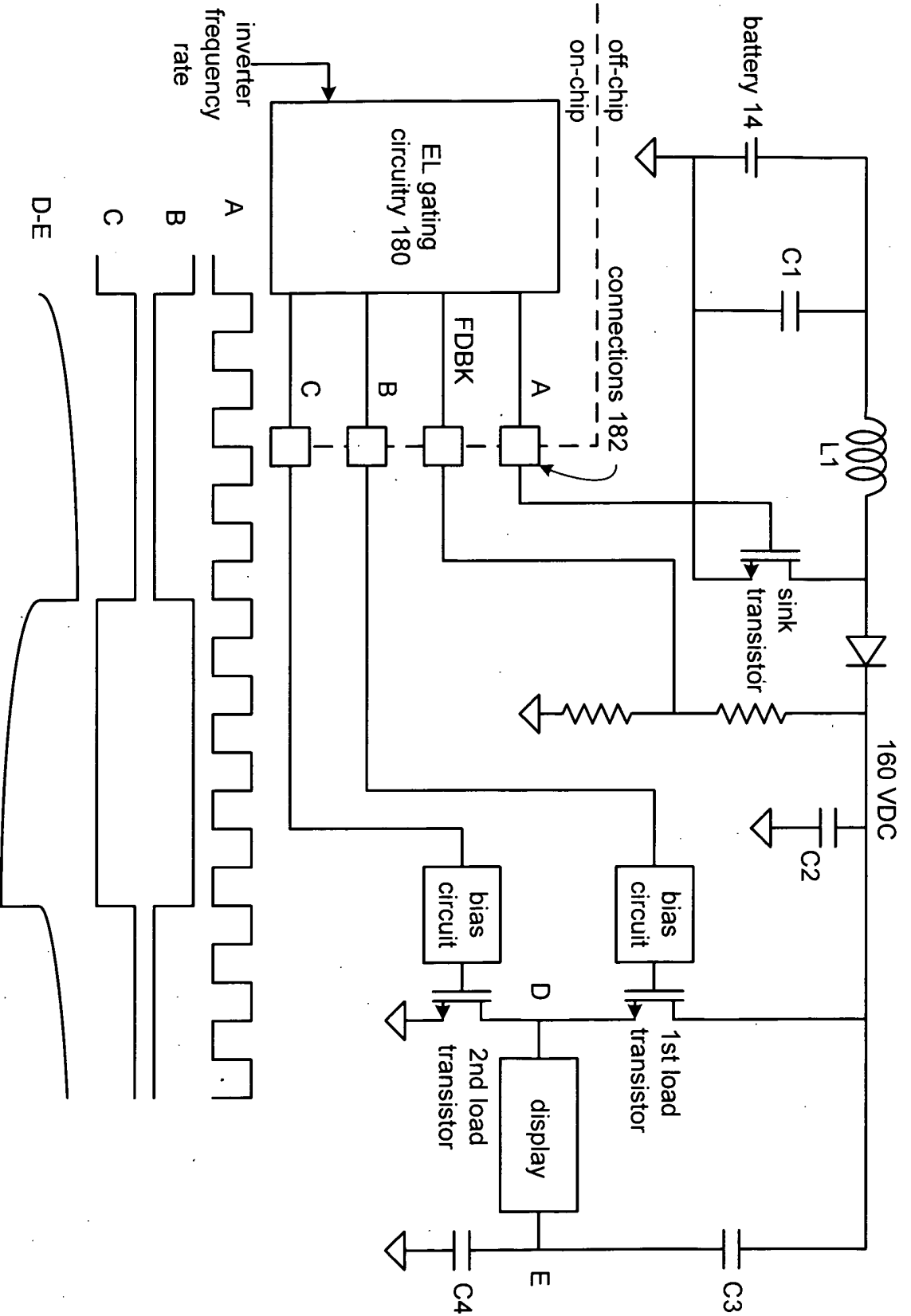


**FIG. 6**  
**capacitor-less headphone driver 72**



**FIG. 7**  
**capacitor-less headphone driver 72**





**FIG. 8**  
**EL backlighting drive circuitry 70**